

HPE Aruba AP-635 (RW) (R7J27A)

HPE Aruba AP-635 (RW) - Campus - radio access point - Wi-Fi 6E - ZigBee, Bluetooth - 2.4 GHz, 5 GHz, 6 GHz



The HPE Aruba AP-635 (RW) is a wireless access point designed to meet the demands of modern businesses and dense user environments. With its support for Wi-Fi 6E technology, it offers high data transfer rates of up to 2.4 Gbps, ensuring high-speed connectivity for all connected devices. The AP-635 (RW) is capable of supporting up to 512 wireless clients per Wi-Fi radio, making it suitable for high-density settings. Security is a priority for any organization, and the AP-635 (RW) addresses this need with a comprehensive suite of encryption algorithms, including WPA3 and Opportunistic Wireless Encryption (OWE), to protect against unauthorized access and ensure network integrity. Additionally, its support for Bluetooth 5.0 and ZigBee expands its utility in IoT applications, providing flexible connectivity options. Efficiency is at the core of the AP-635 (RW), with its custom deep-sleep mode not only reducing energy consumption but also lowering operational costs. Its ruggedized indoor design ensures durability and reliability, making it a smart investment for any enterprise looking to enhance its wireless infrastructure.

Key Selling Points

Supports up to 512 wireless clients per Wi-Fi radio for high-density environments
Incorporates Wi-Fi 6E technology for faster data transfer rates up to 2.4 Gbps
Advanced security with WPA3 and Opportunistic Wireless Encryption (OWE)
Bluetooth 5.0 and ZigBee for IoT connectivity
Energy-efficient with intelligent power monitoring and custom deep-sleep mode

Product Features

Robust connectivity

Equipped with Bluetooth 5.0, ZigBee, and Wi-Fi 6E technology, the HPE Aruba AP-635 (RW) ensures a seamless and robust connection across a wide range of devices and IoT applications, making it ideal for modern, connected environments.

Enhanced security

Featuring a comprehensive suite of encryption algorithms including WPA3 and Opportunistic Wireless Encryption (OWE), the device offers advanced security measures to protect sensitive data and maintain network integrity.

Optimized performance

With support for up to 512 wireless clients per Wi-Fi radio and advanced features like 2x2:2 MU-MIMO technology, the AP-635 (RW) delivers high-capacity, efficient performance tailored for dense user environments.

Energy efficient

The device's intelligent power monitoring (IPM) and custom deep-sleep mode ensure energy efficiency, reducing operational costs without compromising on performance.

Durable design

Designed for indoor use with a ruggedized chassis, the AP-635 (RW) is built to withstand the demands of busy enterprise environments, ensuring reliability and longevity.

Main Specifications

Product Description	HPE Aruba AP-635 (RW) - Campus - radio access point - ZigBee, Bluetooth, Wi-Fi 6E
Device Type	Radio access point
Form Factor	External - indoor
Data Link Protocol	IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n, ZigBee, IEEE 802.11ac, Bluetooth 5.0, IEEE 802.11ax (Wi-Fi 6E)
Frequency Band	2.4 GHz, 5 GHz, 6 GHz
Performance	Maximum data rate (2.4 GHz): 287 Mbps Maximum data rate (5 GHz): 1.2 Gbps Maximum data rate (6 GHz): 2.4 Gbps Aggregate bandwidth: 3.9 Gbps
Capacity	Wireless clients per Wi-Fi radio: 512 OFDMA units: 8 BSSIDs per radio: 16
Included Accessories	Mounting bracket
OS Required	ArubaOS, InstantOS
Power Over Ethernet (PoE) Supported	PoE
Dimensions (WxDxH)	22 cm x 22 cm x 5 cm
Weight	1.3 kg
Manufacturer Warranty	Limited lifetime warranty

Extended Specification

General

Device Type	Radio access point
Ruggedized Design	Indoor
Width	22 cm
Depth	22 cm
Height	5 cm
Weight	1.3 kg

Expansion / Connectivity

Interfaces	1 x HPE Smart Rate - RJ-45 1 x 2.5 GBase-T - RJ-45 1 x USB 2.0 - Type A 1 x console - micro-USB
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Manufacturer Warranty

Service & Support	Limited warranty - lifetime
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Networking

Form Factor	External
Connectivity Technology	Wireless
Data Transfer Rate	2.4 Gbps
Line Coding Format	CCK, 64 QAM, 256 QAM, BPSK, QPSK, 16 QAM, OFDM, 1024 QAM, 4096 QAM, OFDMA
Data Link Protocol	IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n, ZigBee, IEEE 802.11ac, Bluetooth 5.0, IEEE 802.11ax (Wi-Fi 6E)
Spread Spectrum Method	OFDM, DSSS, OFDMA
Frequency Band	2.4 GHz, 5 GHz, 6 GHz
Performance	Maximum data rate (2.4 GHz): 287 Mbps Maximum data rate (5 GHz): 1.2 Gbps Maximum data rate (6 GHz): 2.4 Gbps Aggregate bandwidth: 3.9 Gbps
Capacity	Wireless clients per Wi-Fi radio: 512 OFDMA units: 8 BSSIDs per radio: 16
Status Indicators	System, status
Features	Auto-uplink (auto MDI/MDI-X), Wi-Fi Multimedia (WMM) support, Trusted Platform Module (TPM), Maximum Ratio Combining (MRC), Low Density Parity Check (LDPC), Transmit Beam-forming (TxBF) ready, Direct Sequence Spread Spectrum (DSSS), Cyclic Delay Diversity (CDD), Space Time Blocking Code (STBC), Advanced Cellular Coexistence (ACC), ClientMatch, cyclic shift diversity (CSD), packet aggregation A-MPDU, packet aggregation A-MSDU, Intelligent Power Monitoring (IPM), Dynamic Frequency Selection (DFS), High-Throughput (HT) support, LED off mode, Energy-Efficient Ethernet (EEE), Orthogonal Frequency Division Multiplexing (OFDM), Aruba AirMatch, 2x2:2 MU-MIMO technology, Very High Throughput (VHT) support, WMM Power Save, security slot (Kensington security lock compatible), Orthogonal Frequency Division Multiple Access (OFDMA), unified AP support, custom deep-sleep mode, High Efficiency (HE) support, Target Wait Time (TWT), Wi-Fi 6E technology
Encryption Algorithm	WPA, WPA-Enterprise, WPA3, Opportunistic Wireless Encryption (OWE), WPA2-MPSK, WPA-Personal, CNSA
Compliant Standards	IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n, IEEE 802.3at, IEEE 802.11ac, IEEE 802.3bz, IEEE 802.3bt, IEEE 802.11ax, Wi-Fi CERTIFIED 6

Miscellaneous

Included Accessories	Mounting bracket
MTBF	59 years
Compliant Standards	EN 60950, IEC 60950, UL 60950, UL 2043, FCC, EN 60601-1-2, EN 60601-1-1, EMC 2014/30/EU, LVD 2014/35/EU, EN 62368-1, IEC 62368-1, ISED, RED 2014/53/EU

Power

Power Over Ethernet (PoE) Supported	PoE
Power Consumption Operational	26.4 Watt

Software / System Requirements

OS Required	ArubaOS, InstantOS
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	50 °C
Humidity Range Operating	5 - 95% (non-condensing)

Aerial

Antenna	Internal
Directivity	Omni-directional
Gain Level	7 dBi

Dimensions & Weight (Shipping)

Shipping Width	25 cm
Shipping Depth	24 cm
Shipping Height	8.5 cm
Shipping Weight	1.65 kg

Internet of Things (IoT)

Internet of Things (IoT) Compatible	Yes
Communications Technology	Bluetooth Low Energy (LE), Zigbee

What's in the box

HPE Aruba AP-635 (RW) Campus
Mounting bracket

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